

35
~~TOP SECRET NOFORN~~

**INTEGRATED
STRIKE & INTERDICTION
PLAN**

DESIGNATED TARGET LIST

SLIDES

SPECIAL HANDLING REQUIRED
NOT RELEASABLE TO
FOREIGN NATIONALS
The information contained
in this document will not
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Nationals or their
Representatives

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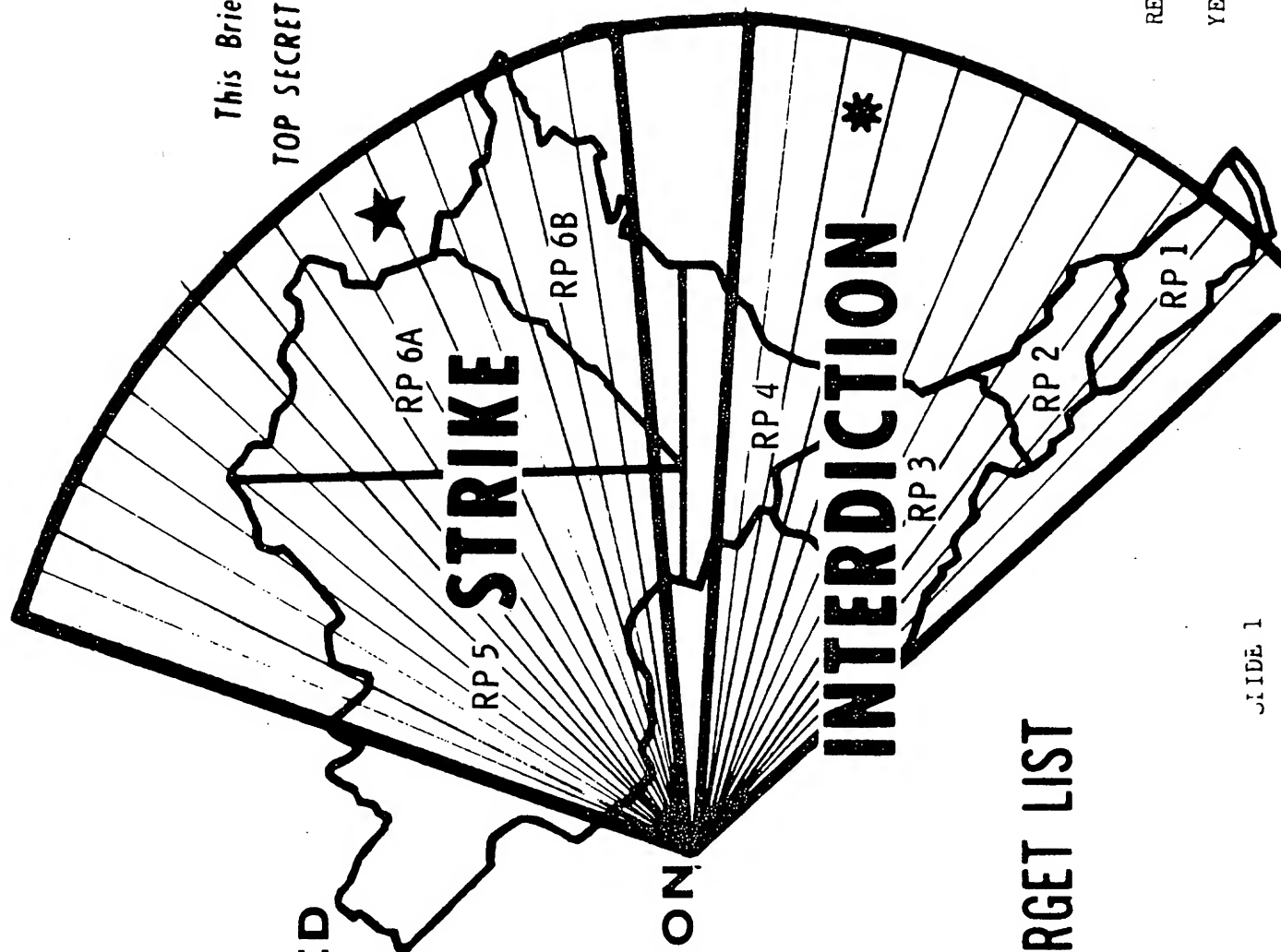
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INTEGRATED STRIKE *and* INTERDICTION PLAN

This Briefing is
TOP SECRET NO-FORN



LEGEND

RED



YELLOW



SLIDE 1

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BRIEFING ORDER

- INTRODUCTION
- TARGET GROUPINGS
- ANALYSIS METHODOLOGY
- ANALYSIS SUMMARY
- AIR CAMPAIGN
- CONCLUSIONS
- RECOMMENDATIONS

TARGET GROUPINGS STUDIED

- ELECTRICAL POWER
- AIRFIELDS
- INDUSTRIAL
- TRANSPORTATION
- MILITARY
- COMMAND AND CONTROL
- POL
- LOCKS AND DAMS
- EXTRACTIVE
PORTS

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NVN ECONOMY AND TARGET GROUPING INTERRELATIONSHIPS

- INTERRELATIONSHIPS OF THE NVN ECONOMY
- HOW THE ECONOMY OF NVN SUPPORTS TARGET GROUPINGS
- INTERRELATIONSHIPS OF TARGET TO TARGET AND TARGET GROUP TO TARGET GROUP

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SOURCES OF DATA FOR ECONOMETRIC STUDY

TECHNICAL DATA SOURCES

ECONOMIC TEXTS & ARTICLES BY:

LEONTIEF
THEIL
BATOR
SAMUELSON
SOLOW
BAUMOL

INDUSTRIAL TEXTS & ARTICLES RELATING TO:

MINING & METALLURGY
INDUSTRIAL PROCESSES
AGRICULTURE
FORESTRY
INDUSTRIAL CHEMISTRY
OTHER EMPIRICAL WORKS

INTELLIGENCE DATA SOURCES

STUDIES & REPORTS BY:

DIA
CIA
RAND CORP.
DEPT. OF COMMERCE
DEPT. OF INTERIOR
NPIC
NSA
OTHER DOD AGENCIES

CONSULTANTS:

DIA
CIA
RAND CORP.
AIR STAFF AGENCIES
OTHER GOV'T. AGENCIES

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THE ECONOMETRIC TECHNIQUE

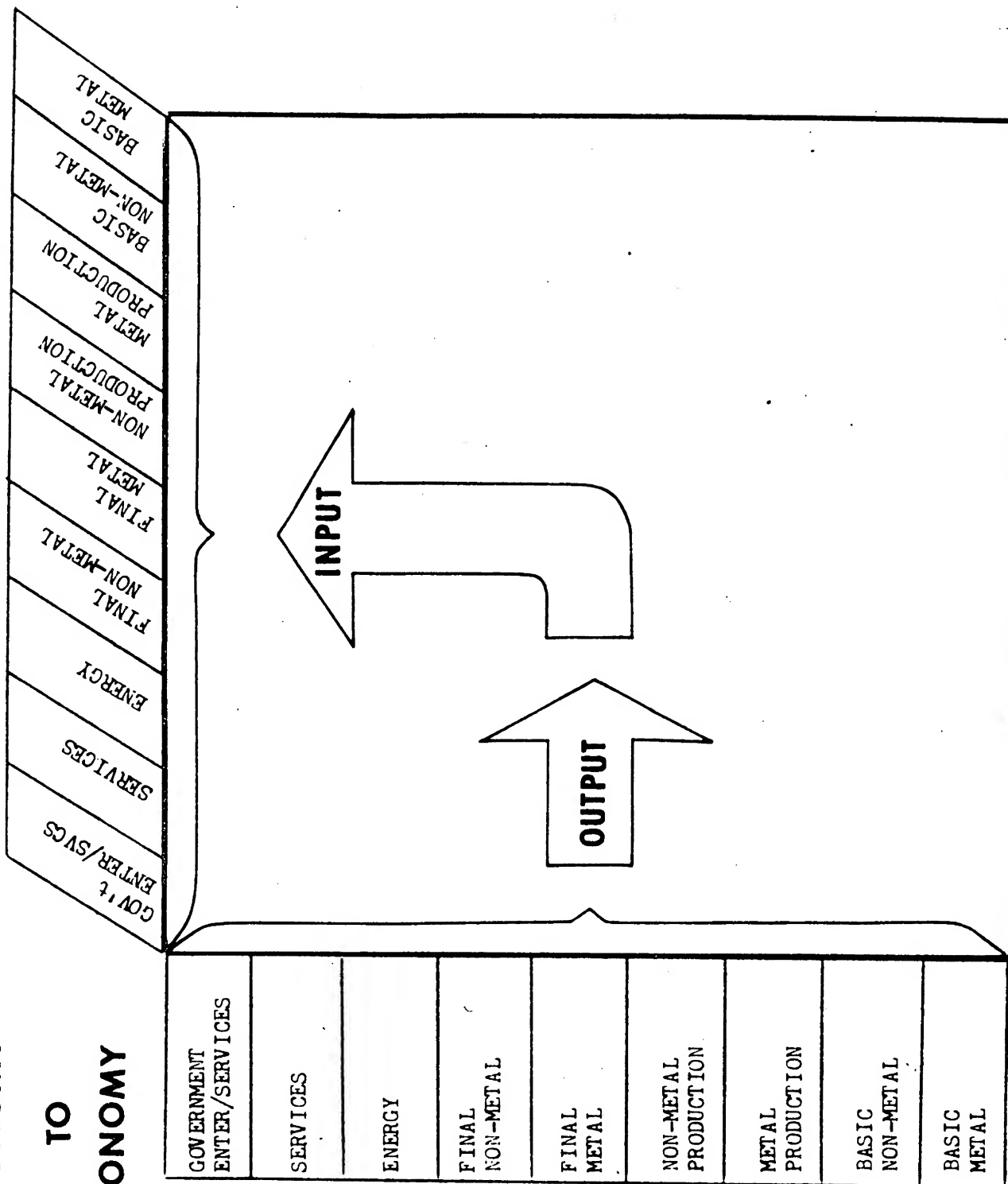
SYSTEMATICALLY:

- IDENTIFIES COMMODITIES REQUIRED FOR SUPPORT OF THE NVN ECONOMY AND MILITARY OBJECTIVES.
- DEFINES THE SOURCE OF THE COMMODITY AS DOMESTIC OR IMPORT.
- SHOWS HOW THE COMMODITY IS DISTRIBUTED.
- SHOWS HOW AND WHERE THE COMMODITY IS USED.

INPUT/OUTPUT MATRIX

ECONOMY

TO
ECONOMY

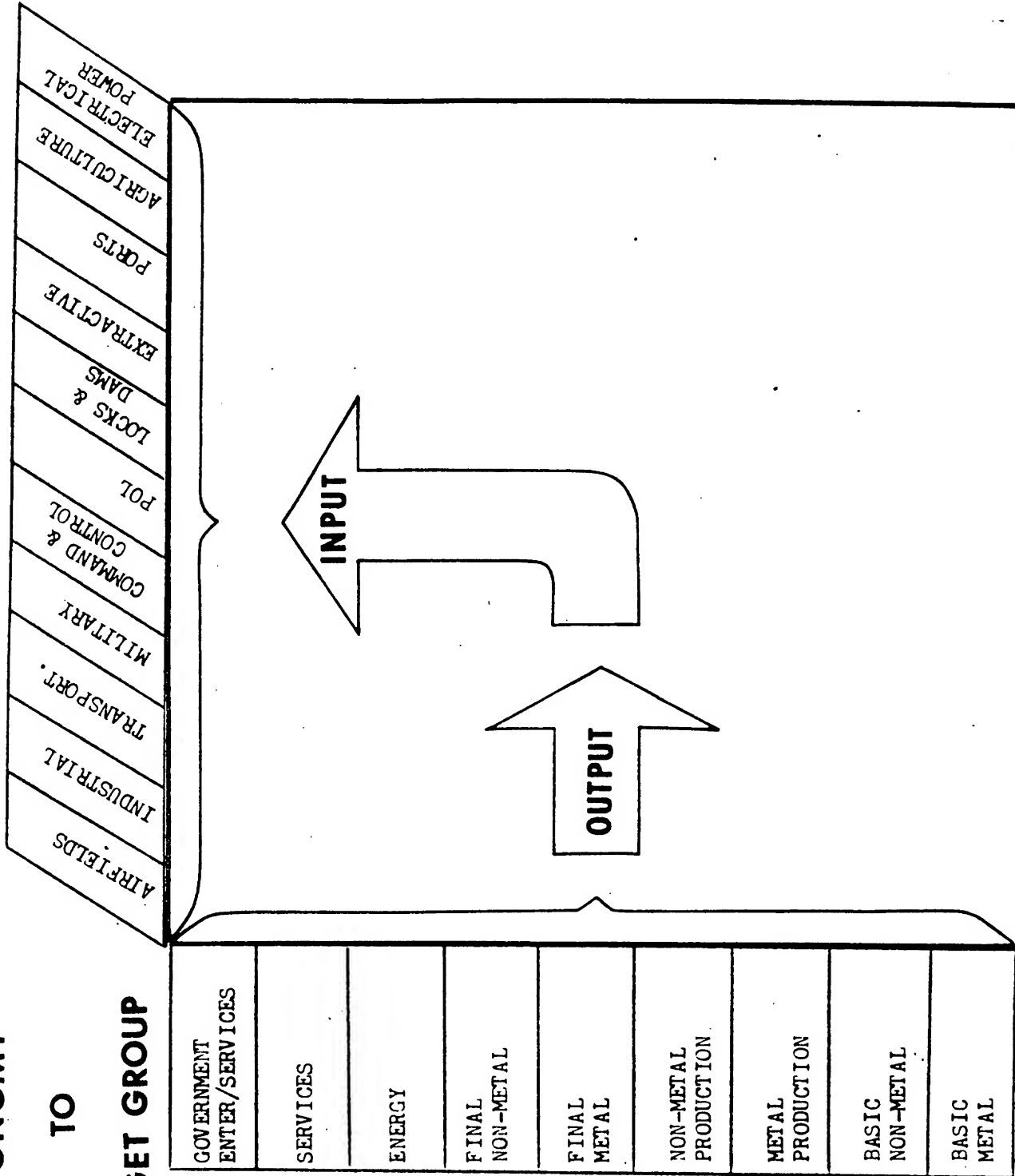


INPUT/OUTPUT MATRIX

ECONOMY

TO

TARGET GROUP

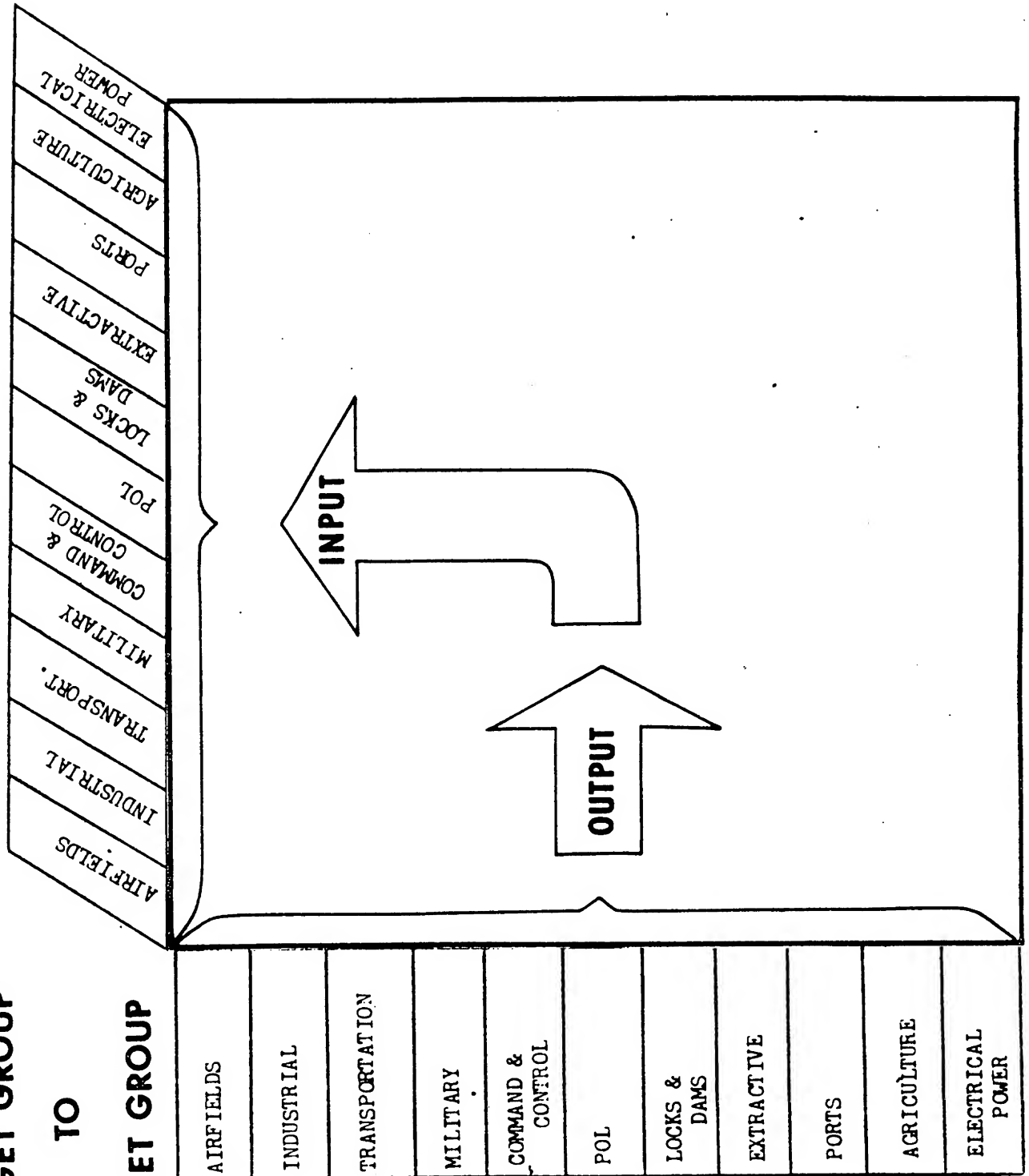


INPUT/OUTPUT MATRIX

TARGET GROUP

TO

TARGET GROUP



ECONOMY TO ECONOMY

	GOVERNMENT ENTERPRISES SERVICES	ENERGY	FINAL NON-METAL	FINAL METAL	NON-METAL PRODUCTION	METAL PRODUCTION	BASIC NON-METAL	BASIC METAL
ENERGY								
PETROLEUM	★	★					★	
THERM ELEC PWR	●	●	●		●			
HYDRO ELEC PWR		■	■			■		
COAL	★	★						★

★	MILITARY SUPPORT FACILITIES	GOVERNMENT ENTERPRISES SERVICES
●	ANTI-ACFT FACILITIES	
●	SURFACE TO AIR FACILITIES	
●	COMMAND AND CONTROL	
●	AIRCRAFT FACILITIES	
●	PORT SERVICES	

★	AUTO/TRUCK REPAIR	SERVICES
●	RAILROAD REPAIR	
●	WATERCRAFT REPAIR	
●	RADIO BROADCASTING	
●	MEDICAL/EDUCATIONAL	
●	DISTR AND MARKETING	
●	COMMUNICATION	
●	MAINT AND REPAIR CONST	

★	PETROLEUM	ENERGY
●	THERM ELEC PWR	
●	HYDRO ELEC PWR	
●	COAL	

●	AGRICULTURE/FOOD PRODUCTS	FINAL NON-METAL
●	FORESTRY	
●	CHEMICAL	
●	TEXTILE	

★ YELLOW
 ● GREEN
 ■ BLUE
 ★ RED

●	MACHINE TOOLS	FINAL METAL
●	ORDNANCE AND ACCESSORIES	
●	AIRCRAFT AND PARTS	
●	MOTOR VEHICLES AND PARTS	
●	RR ENGINES, CARS, AND PARTS	
●	WATERCRAFT	
●	FARM MACHINERY, EQUIPMENT	
●	CONST AND MINING EQUIPMENT	
●	COMMUNICATIONS EQUIPMENT	
●	ELECTRONIC EQUIPMENT	
●	MOBILE POWER EQUIPMENT	

●	CEMENT PRODUCTS	NON-METAL PRODUCTION
●	RUBBER PRODUCTS	
●	CHEMICALS AND CHEMICAL PROD	

●	STRUCTURAL METAL PRODUCTS	METAL PRODUCTION
●	FABRICATED METAL PRODUCTS	
●	ELECTRICAL EQUIPMENT	
●	IRON AND STEEL	
●	TIN	
●	CHROMITE	

★	STONE AND CLAY	BASIC NON-METAL
●	WOOD	
●	RUBBER	

★	CHROMITE ORE	BASIC METAL
	IRON ORE	
	TIN ORE	
	ZINC ORE	



















ECONOMY TO TARGET GROUPS		AIRFIELDS	INDUSTRIAL	TRANSPORTATION	MILITARY	COMMAND & CONTROL	POL	LOCKS & DAMS	EXTRACTIVE & REFINING	PORTS	ELECTRIC POWER
ENERGY	PETROLEUM	*				*	*			*	*
	THERMAL ELEC PWR	●		●		●			●	●	●
	HYDRO ELEC PWR										■
	COAL								●		★

ENERGY	PETROLEUM
	THERMAL ELEC PWR
	HYDRO ELEC PWR
	COAL

AIR - FIELDS	
✱✱✱ AIRCRAFT ✱✱✱ AIRCRAFT SUPPORT	
● CHEMICAL	
★ ● IRON AND STEEL	
★ ● MACHINE TOOL	
● CEMENT	
● TEXTILES	
● RUBBER	
■ ★ ✱ OTHER INDUSTRIES	
★ ● RAIL	
✱ ● WATER	
✱ ● ROAD	
● MUNITIONS STORAGE	
● BARRACKS	
● SUPPLY	
	TRAINING
TRANSPORTATION	
MILITARY	

LEGEND

YELLOW	★	GREEN	●	BLUE	■	RED	★
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 SAM   AAA   RADAR   COMMAND POST 	COMMAND & CONTROL
 POL	POL
LOCKS & DAMS	LOCKS
CLAY LIMESTONE PHOSPHATES COAL  SALT IRON  CHROMITE  TIN  ZINC 	EXTRACTIVE & REFINING
 PORTS	PORTS
 PORTABLE  FIXED 	ELEC. POWER

RELATIONSHIP OF TARGET GROUP TO TARGET GROUP

	TARGET GROUP									
	AIRFIELDS	INDUSTRIAL	TRANSPORTATION	MILITARY	COMMAND & CONTROL	POL	LOCKS & DAMS	EXTRACTIVE	PORTS	ELECTRIC POWER
AIRFIELDS										
INDUSTRIAL										
TRANSPORTATION										
MILITARY										
COMMAND & CONTROL										
POL										
LOCKS & DAMS										
EXTRACTIVE										
PORTS										
ELEC. POWER										
PORTABLE										
FIXED										

LEGEND
 * YELLOW
 ★ RED
 ● GREEN

ENERGY CATEGORY ANALYSIS

PETROLEUM:

- CONTRIBUTES SIGNIFICANTLY TO ECONOMIC AND MILITARY OPERATIONS
- A SOURCE OF ENERGY TO DRIVE PORTABLE POWER PLANTS.
- IS 100% IMPORTED.
- STORAGE POINTS ARE TOO WIDELY DISPERSED TO LOCATE AND DESTROY WITH AIR POWER.

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ENERGY CATEGORY ANALYSIS

THERMAL ELECTRIC POWER (FIXED/PORTABLE)

- CONTRIBUTES SIGNIFICANTLY TO ECONOMIC AND MILITARY OPERATIONS
- FIXED POWER PLANTS, (COAL FIRED) PRODUCE 89% OF THE NVN NATIONAL CAPACITY
- DESTRUCTION OF FIXED POWER PLANTS WOULD NEGATE THE IMPORTANCE OF COAL AS A TARGET SYSTEM WITHIN THE ENERGY CATEGORY.
- FIXED POWER PLANTS CAN BE EFFICIENTLY AND EFFECTIVELY ATTACKED WITH AIR POWER.
- PORTABLE POWER PLANTS ARE TOO NUMEROUS AND WIDELY DISPERSED TO LOCATE AND DESTROY WITH AIR POWER AND MUST BE NEUTRALIZED THROUGH DENIAL OF POL.
- THE ENTIRE FIXED POWER SYSTEM MUST BE ATTACKED.
- USE OF THE BACK-UP SYSTEM, PORTABLE POWER, MUST BE DENIED TO THE ENEMY.

ENERGY CATEGORY ANALYSIS

HYDRO ELECTRIC POWER:

- TWO PLANTS EXIST; COLLECTIVELY THEY PRODUCE ONLY 2.4% OF THE TOTAL NATIONAL ELECTRIC ENERGY CAPACITY.
- BOTH PLANTS CAN BE EFFICIENTLY AND EFFECTIVELY ATTACKED WITH AIR POWER.

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ENERGY CATEGORY ANALYSIS

COAL:

- IS DOMESTICALLY PRODUCED IN SUFFICIENT QUANTITIES TO SATISFY NVN REQUIREMENTS AS A SOURCE OF ENERGY TO DRIVE THERMAL POWER PLANTS AND TO PROVIDE AN EXPORT COMMODITY.
- SOURCES, (MINES) ARE TOO NUMEROUS AND DISPERSED TO CONSTITUTE A SYSTEM FOR ATTACK BY AIR POWER .
- IMPORTANCE REDUCED AS AN ENERGY SOURCE IF "END USE" FACILITIES, FOR EXAMPLE, FIXED THERMAL POWER PLANTS, ARE DESTROYED.

ENERGY CATEGORY ANALYSIS SUMMARY

- MAXIMUM IMPACT CAN ONLY BE ACHIEVED IF BOTH THE FOLLOWING ACTIONS ARE TAKEN:
 - a. DESTRUCTION OF FIXED POWER PLANTS.
 - b. ELIMINATION OF POL IMPORTS.

TARGET TO TARGET

TARGET		TO		TARGET			
ELEC	AIR	INDUSTRIAL	TRANS	MILITARY	COMMAND	EXTRACTIVE	
PWR	FLDS				CONTROL		
INDUSTRIAL	AIR	PORTABLE					
		FIXED					
		AIRCRAFT					
		A/C SUPPORT					
		CHEMICAL					
		IRON & STEEL					
		MACHINE TOOL					
		CEMENT					
		TEXTILES					
		RUBBER					
TRANS	AIR	OTHER INDUSTRY					
		WATER					
		ROAD					
MILITARY	AIR	MUN. STORAGE					
		BARRACKS					
		SUPPLY					
		TRAINING					
COMMAND & CONTROL	AIR	SAM					
		AAA					
		RADAR					
EXTRACTIVE	AIR	COMMAND POST					
		POL					
EXTRACTIVE	AIR	LOCKS & DAMS					
		CLAY					
		LIMESTONE					
		PHOSPHATES					
		COAL					
		SALT					
		IRON					
		CHROMITE					
		TIN					
		ZINC					
EXTRACTIVE	AIR	PORTS					
		PORTS					

CHARACTER OF THE NVN ECONOMY

- BASED PRIMARILY ON AGRICULTURE WHICH:
EMPLOYS 50% OF THE LABOR FORCE
PROVIDES 45% OF THE GNP
- FACTORY INDUSTRY PROVIDES 10-15% OF GNP
- HANDICRAFT/COTTAGE INDUSTRY PROVIDES 10% OF GNP
- TRANSPORTATION, COMMERCE AND SERVICES GENERATE 35% OF GNP
- HIGHLY SUBSIDIZED AND DEPENDENT UPON IMPORTS

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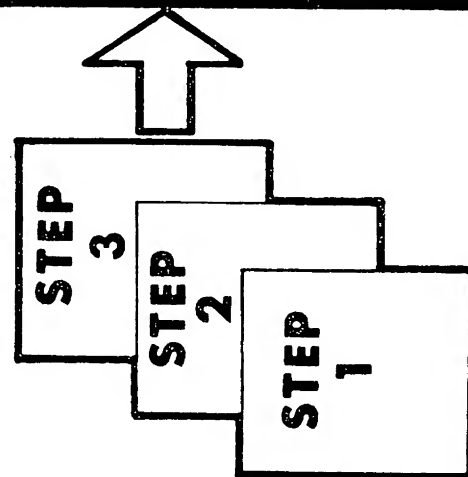
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TGT SELECTION



TGT to TGT									
		3	12	8	7	9	13		
	PORTS								
	ELEC PWR								
	C& C								
	AIRFIELDS								
	INDUSTRIAL								
	TRANSP.								
PORTS	3								EXTRACTIVE
ELECTRIC POWER	12								LOCKS/DAMS
COMMAND & CONTROL	8								POL
AIRFIELDS	7								MILITARY
INDUSTRIAL	9								
TRANSP.	13								
TOTAL	52								

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AIR CAMPAIGN

DESIGNATED

TARGET

LIST

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DESIGNATED TARGET LIST

COMMAND & CONTROL TARGET SYSTEM

TARGETS	SORTIES	DIRECT EFFECT	COST	COLLATERAL EFFECT
1. Hanoi ADD	19	1. Eliminates Primary Control Facility	Sorties 89	1. GCI SITES 2. EW Sites 3. SAM Battalions 4. Airfields W/Air Defense Facilities
2. Hanoi Intl Radcom XMTR (JCS 66)	4	2. Destroys Vital Transmitter		
3. Hanoi HF Telecom Site (JCS 66. 1)	26	3. Destroys Vital Command Transmitter	Aircraft Attrition 1.2	5. AAA Radar 6. Hanoi MND 7. Vulnerability of All Targets Increased Civilian Casualties 27
4. Hanoi Intl Radcom RCVR (JCS 67)	12	4. Destroys Vital Radio Receiver		
5. Vinh Filter Center	7	5 Neutralizes Control Facility		
6. Nam Din Filter Center	7	6. Neutralizes Control Facility		
7. Filter Center	7	7. Neutralizes Control Facility		
8. Filter Center	7	8. Neutralizes Control Facility		

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DESIGNATED TARGET LIST

AIRFIELD TARGET GROUP

TARGETS	SORTIES	DIRECT EFFECT	COST	COLLATERAL EFFECT
1. Phuc Yen	40			1. Increases Target Vulnerability
2. Kep	21		Sorties 160	2. Hanoi ADD
3. Cat Bi	34			3. Filter Centers
4. Kien An	33	Neutralizes All Major Tactical and Transport Airfields Except Gia Lam	Attrition Aircraft 3.1	4. GCI Radar
5. Bac Ma	8			5. EW Radar
6. Kep Ha	12			6. Hanoi MND
7. Hoa Loc	12			Civilian Casualties 17

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DESIGNATED TARGET LIST

PORT TARGET SYSTEM

TARGETS	SORTIES	DIRECT EFFECT	COST	COLLATERAL EFFECT
1. Haiphong	225/29	1. Affects 80% of Maritime Shipping	Sorties 395 Bombing 50 Mining	1. Airfields
2. Hon Gai	93/15	2. Eliminates Export of Coal and Alternate Import Facilities		2. Viet Tri Chemical
3. Cam Pha	77/6			3. Thai Nguyen Iron & Steel
			Aircraft Attrition 7.7	4. Hanoi Machine Tool
				5. Haiphong Cement
				6. Haiphong Phosphate
				7. Phu Tho Chemical
				8. Bac Giang Chemical
				9. Nam Ninh Textile
				10. POL
				11. Iron, Phosphate, Coal Mines
				12. Military Munitions
				13. Filter Centers
				14. GCI Sites
				15. EW Sites
				16. SAM Battalions
				17. AAA Units

Civilian Casualties 432

SECRET

DESIGNATED TARGET LIST

ELECTRICAL TARGET SYSTEM

TARGETS	SORTIES	DIRECT EFFECT	COST	COLLATERAL EFFECT
1. Hanoi XFMR	29	1. Destroys Main Switching Station	Sorties 276	1. Haiphong Port 2. Hon Gai Port 3. Cam Pha Port 4. Airfields 5. Viet Tri Chemical 6. Thai Nguyen Iron & Steel 7. Hanoi Machine Tool 8. Haiphong Cement 9. Haiphong Phosphate 10. Phu Tho Chemical 11. Bac Giang Chemical 12. Hanoi Rubber 13. Phu My Zinc 14. Cu Van Iron Ore 15. Lang Nhon Apatite Mine 16. Nang Danh Coal Mine 17. Tin Tuc Tin Smelter 18. Military Installations 19. Command & Control 20. Transportation Targets
2. Hanoi TPP	28	2. Destroys 90.7% of Total Capacity		Aircraft Attrition 5
3. Viet Tri TPP	26			
4. Hon Gai TPP	24			
5. Bac Giang TPP	28			
6. Thai Nguyen TPP	26			
7. Haiphong W TPP	26			
8. Haiphong E TPP	23			
9. Phu Ly TPP	23			
10. Lao Cai TPP	25			
11. Ta Sa Na Ngan HPP	9			
12. Ta Sa HPP	9			

Civilian Casualties
139

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DESIGNATED TARGET LIST

INDUSTRIAL TARGET GROUP

TARGETS	SORTIES	DIRECT EFFECT	COST	COLLATERAL EFFECT
1. Viet Tri Chemical	62	1. Neutralizes 58% Chemical Production	Sorties 514	1. Haiphong Port
2. Thai Nguyen Iron & Steel	121	2. Neutralizes Iron & Steel Production		2. Hon Gai Port
3. Hanoi Machine Tool	57	3. Neutralizes Machine Tool Production		3. Cam Pha Port
4. Haiphong Cement	23	4. Neutralizes Cement Production	Aircraft Attrition 8	4. Ben Thuy Port
5. Haiphong Phosphate	8	5. Neutralizes Fertilizer Production		5. Phuc Loi Port
6. Phu Tho Chemical	98	6. Neutralizes Most Modern Chemical Plant		6. Port Wallut
7. Bac Giang Chemical	88	7. Neutralizes Major Chemical Plant		7. Airfields
8. Nam Dinh Textile	31	8. Neutralizes Largest Textile Production Facility		8. POL
9. Hanoi Rubber	26	9. Neutralizes Largest Rubber Production Facility		9. Military Installations
				10. SAM Support Facility
				11. Transportation
				Civilian Casualties 353

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DESIGNATED TARGET LIST

TRANSPORTATION
(LOC's)

TARGETS	SORTIES	DIRECT EFFECT	COST	COLLATERAL EFFECT
Road Bridges (8)	227	Impedes Logistic Movement into North Vietnam	Sorties 311	1. Ports
Rail Bridges (2)	48		Aircraft Attrition 3.5	2. Airfields
Waterways (3)	36			3. Nav Locks & Dams
				4. Industrial Targets
				5. POL Targets
				6. Extractive Targets
				7. Military Installations
				8. Civilian Casualties 63

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RECOMMENDED CAMPAIGN SUMMARY

TARGETS	52
STRIKE SORTIES	1795
AIRCRAFT ATTRITION	29
CIVILIAN CASUALTIES	1031

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RESTRIKE REQUIREMENTS

<u>SYSTEM</u>	<u>NUMBER TARGETS</u>	<u>TIME INTERVAL FOR RESTRIKE</u>	<u>RESTRIKE SORTIE REQUIREMENT</u>
ELECTRICAL POWER (FIXED)	12	20 MONTHS	276
INDUSTRIAL	9	12 MONTHS	514
AIRFIELDS	7	10 DAYS	160
COMMAND & CONTROL HANOI ADD (1)	8	10 DAYS	19
COMMUNICATIONS (7)		30 DAYS	70
PORTS	3		
BOMBING		20 DAYS	395
MINING		10 DAYS	50
TRANSPORTATION	13		
ROAD/RAIL BRIDGES (10)		7 DAYS	275
WATERWAYS (3)		10 DAYS	36
TOTAL	52		

30 DAY SORTIE REQUIREMENT		
FIXED TARGETS	1200	
LOCs	1450	
TOTAL		2650

RECOMMENDED AIR CAMPAIGN (52 TARGETS)

★ JCS MAP(2339/25.

★ CINCPAC 66/67

★ AIRSTAFF LIST

□ JCS PROPOSED

● JCS EXECUTE

▲ STRUCK

ELECTRIC POWER

★ ▲ HON GAI TPP
★ ▲ THAI NGUYEN TPP
★ ▲ VIET TRI TPP
★ ▲ BAC GIANG TPP
★ ▲ HANOI TRANSFORMER STA
★ ▲ HAIPHONG - WEST TPP
★ ▲ PHU LY TPP
★ ▲ HANOI TPP
★ ▲ HAIPHONG - EAST TPP
★ ▲ LAO CAI TPP
★ ▲ TA SA HPP
★ ▲ TA SA NA NGAN HPP

TRANSPORTATION

HIGHWAY BRIDGES - 8
RAILROAD BRIDGES - 2
WATERWAYS - 3

PORTS/NAVAL BASES

★ CAM PHA PORT
★ HON GAI PORT
★ HAIPHONG PORT

COMMAND & CONTROL

★ HANOI INTL RADIO
★ TRANSMITTER
★ HANOI HF TELECON
★ HANOI INTL RADIO
★ RECEIVER
★ HANOI MILITARY HQ
★ FILTER CENTERS - 4

AIRFIELDS

★ HANOI BAC MAI
★ HOA LAC
★ PHUC YEN
★ KEP
★ HAIPHONG CAT BI
★ HAIPHONG KIEN AN
★ KEP HA

INDUSTRIAL

★ VIET TRI CHEMICAL
★ HAIPHONG PHOSPHATE
★ BAC GIANG CHEMICAL
★ PHU THO CHEMICAL
★ THAI NGUYEN STEEL
★ HAIPHONG CEMENT PLANT
★ HANOI MACHINE TOOL
★ NAM DINH TEXTILE
★ HANOI RUBBER

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OBJECTIVES

- TO RAISE AND SUSTAIN THE MORALE OF THE SOUTH VIETNAMESE PEOPLE
- TO MAKE THE NORTH VIETNAMESE PAY A PRICE FOR CONTINUING THEIR AGGRESSION AGAINST SOUTH VIETNAM
- TO REDUCE AND MAKE MORE COSTLY THE INFILTRATION OF MEN AND SUPPLIES FROM NVN TO SVN

CONCLUSIONS

1. THE ENEMY HAS DEMONSTRATED THE ABILITY TO ACCOMMODATE TO THE GRADUAL INCREASE OF PRESSURES AND RESULTANT PREDICTABLE PATTERNS WHICH FOLLOW THE PRESENT METHOD OF TARGET AUTHORIZATION
2. IMPORT OF MATERIALS INTO NVN TO SUPPORT MILITARY REQUIREMENTS IN BOTH NVN AND SVN CONTINUES TO INCREASE
3. DENIAL OF IMPORTS TO NVN, AS RECOMMENDED BY THE JCS AND INDIVIDUAL SERVICES AS A REQUIREMENT FOR SUCCESSFUL CONCLUSION OF THE NVN CONFLICT, IS VALIDATED BY ECONOMIC TARGETING
4. TO SIGNIFICANTLY ADVANCE U. S. NATIONAL OBJECTIVES, NVN TARGET SYSTEMS MUST BE BROUGHT UNDER ATTACK IN AN INTEGRATED AND SYSTEMIC AIR CAMPAIGN
5. AN INTEGRATED STRIKE AND INTERDICTION PLAN IS REQUIRED

RECOMMENDATIONS

1. AUTHORIZE CINCPAC TO IMPLEMENT
2. MODIFY EXISTING CONSTRAINTS TO PERMIT
IMPLEMENTATION

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